# **Signature Page**

# Signed By

ROBERT F BENHAM

#### Organization

OG AND E

#### **URL**

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#### Agent

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#### Time

3/30/2023 3:16:10 PM

#### Agreement #1

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#### Agreement #3

I agree that use of this System combined with the user's login and password to sign the submission document constitutes an electronic signature equivalent to my written signature. I have reviewed the electronic report being submitted in its entirety and agree to the validity, accuracy, and completeness of the information contained within it to the best of my knowledge. I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

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I am free to discontinue this transaction by selecting "Cancel"; otherwise, the records will be submitted to the DEQ, and the transaction will be complete.

#### **Confirmation Number**

S20230330151457-F1211-R2022

# 2022 Emissions Inventory Report OG AND E (330)

## **SOONER GENERATING STATION (1211)**

### **Emissions Summary**

CRITERIA AIR POLLUTANT (CAP) EMISSIONS TOTALS				
Pollutant Code/CAS#	Pollutant Name	Total Emissions (tons)*		
CO	Carbon Monoxide	1,564.295		
NOX	Nitrogen Oxides (NOx) expressed as NO2	1,859.226		
PM10-PRI	PM10 - Primary (Filterable + Condensible)	88.34		
PM25-PRI	PM2.5 - Primary (Filterable + Condensible)	50.673		
SO2	Sulfur Oxides (SOx) expressed as SO2	494.052		
VOC	Volatile Organic Compounds (VOCs)	52.001		

#### HAZARDOUS AIR POLLUTANT (HAP) and/or OTHER POLLUTANT EMISSIONS TOTALS Pollutant Code/CAS# Pollutant Name Is VOC/PM? **Total Emissions** (tons)\* 7439921 PM0.012 Lead (CAP-HAP) 121142 VOC 0.041 2,4-Dinitrotoluene (HAP) 75070 Acetaldehyde (HAP-TOX) VOC 0.045 98862 VOC 0.03 Acetophenone (HAP) 107028 VOC 0.053 Acrolein (HAP) 107131 Acrylonitrile (HAP-TOX) VOC 0.167 7440360 PM0.004 Antimony (HAP) 7440382 Arsenic (HAP-TOX) PM0.006 71432 Benzene (including benzene from gasoline) (HAP-TOX) VOC 0.03 92875 Benzidine (HAP) VOC 0.042 VOC 100447 Benzyl chloride (HAP) 0.029 7440417 Beryllium (HAP-TOX) PM0.001 92524 Biphenyl (HAP) VOC 0.002 117817 Bis(2-ethylhexyl)phthalate (DEHP) (HAP) VOC 0.043 7440439 Cadmium (HAP-TOX) PM0.002 75150 VOC 0.026 Carbon disulfide (HAP) 56235 Carbon tetrachloride (HAP-TOX) VOC 0.002 108907 Chlorobenzene (HAP) VOC 0.002

Pollutant Code/CAS#	Pollutant Name	Is VOC/PM?	Total Emission (tons)*
67663	Chloroform (HAP-TOX)	VOC	0.002
7440473	Chromium (HAP-TOX)	PM	0.023
7440484	Cobalt (HAP)	PM	0.006
98828	Cumene (HAP)	VOC	0.002
132649	Dibenzofuran (HAP)	VOC	0.042
84742	Dibutylphthalate (HAP)	VOC	0.011
131113	Dimethyl phthalate (HAP)	VOC	0.014
100414	Ethyl benzene (HAP-TOX)	VOC	0.002
106934	Ethylene dibromide (Dibromoethane) (HAP)	VOC	0.007
107062	Ethylene dichloride (1,2-Dichloroethane) (HAP-TOX)	VOC	0.005
50000	Formaldehyde (HAP-TOX)	VOC	0.101
110543	Hexane (HAP)	VOC	0.033
7647010	Hydrochloric acid (HAP)	PM	0.886
7664393	Hydrogen fluoride (Hydrofluoric acid) (HAP)	PM	3.475
7439965	Manganese (HAP-TOX)	PM	0.032
7439976	Mercury (HAP-TOX)	PM	0.012
71556	Methyl chloroform (1,1,1-Trichloroethane) (HAP)	-	0.004
74884	Methyl iodide (lodomethane) (HAP)	VOC	0.007
108101	Methyl isobutyl ketone (Hexone) (HAP)	VOC	0.135
75092	Methylene chloride (Dichloromethane) (HAP-TOX)	-	0.287
91203	Naphthalene (HAP)	VOC	0.005
7440020	Nickel (HAP-TOX)	PM	0.026
95476	o-Xylene (HAP)	VOC	0.003
108952	Phenol (HAP)	VOC	0.029
123386	Propionaldehyde (HAP)	VOC	0.076
100425	Styrene (HAP)	VOC	0.002
127184	Tetrachloroethylene (Perchloroethylene) (HAP)	-	0.001
108883	Toluene (HAP-TOX)	VOC	0.024
79016	Trichloroethylene (HAP)	VOC	0.004
1330207	Xylenes (isomers and mixture) (HAP)	VOC	0.006

# 2022 Emissions Inventory Report

# **OG AND E (330)**

# **SOONER GENERATING STATION (1211)**

COMPANY

Company Identifier: 330

Company Name:

OG AND E

Mailing Address:

PO BOX 321 MC610

OKLAHOMA CITY, OK 73102-0321

**Contact Phone:** (405) 553-3000 **Contact FAX:** (553) 553-3689

FACILITY

Facility Identifier: 1211

Facility Name: Status Year: SOONER GENERATING STATION

Status: OP - Operating

221112 (Primary) - Fossil Fuel Electric Power Generation

Comments:

NAICS:

FACILITY - ADDRESS

Location Address:

10800 COUNTY RD 230 RED ROCK, OK 74651

FACILITY - LOCATION

Latitude (decimal degress): 36.45183

Longitude (decimal degress): -97.06352

Collection Method:

014 - GPS code measurements (pseudo range) differential (DGPS)

Data Collection Date: 07/03/2008

**Geographic Reference Point:** 101 - Entrance Point of a Facility, System, or Station

Geodetic Reference System: 003 - World Geodetic System of 1984

#### FACILITY - ADDITIONAL INFORMATION

Field Name	Field Value
Oil & Gas Facility Category	Not Applicable
Permit Number(s)	2019-0895-ARR4,2016-0552-TVR3 M-4,2010-338-C M-3,2010-338-C M-1 PSD,2003-274-C M-3
SIC Number	4911
TRI Identifier (ID)	74651SNRGNHWY15

RELEASE POINTS	RELEASE POINTS							
ID	Туре	Description	Status	Details	Location			
9953	Vertical	Bectric Power Generation Boiler - Unit NO 1	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location			
9954	Vertical	Electric Power Generaton Boiler - Unit NO 2	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location			
9955	Fugitive Area: SW Corner Coords	Coal Screening and Handling	OP in 2002	Fugitive Height: 20.0 FEET, Fugitive Width: 195.0 FEET, Fugitive Length: 195.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location			
21424	Vertical	Auxiliary Boiler Stack (EUG 3)	OP in 2002	Height: 109.0 FEET, Shape: Circular, Diameter: 2.0 FEET, Temperature: 1,746.0 F, Flow Rate: 430.0 ACFM, Velocity: 2.281 FPS	Uses Facility Site Location			
41838	Fugitive Area: SW Corner Coords	Coal Pile (EJG 6)	OP in 2007	Fugitive Height: 48.0 FEET, Fugitive Width: 1,474.0 FEET, Fugitive Length: 1,474.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location			
47153	Vertical	NO 2 Emergency Generator (EUG 8-B-03)	OP in 2007	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACPM, Velocity:	Uses Facility Site Location			
47237	Vertical	Emergency Diesel Fire Pump (EUG 8-B-01)	OP in 2007	Height: 9.0 FEET, Shape: Circular, Diameter: 0.66 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACPM, Velocity:	Uses Facility Site Location			
50627	Vertical	Generac Model QT025A (EUG 9)	OP in 2011	Height: 3.0 FEET, Shape: Circular, Diameter: 0.12 FEET, Temperature: 975.0 F, Flow Rate: 220.0 ACFM, Velocity: 324.204 FPS	Uses Facility Site Location			
138500	Vertical	Activated Carbon Silo (EUG 10)	OP in 2016	Height: 50.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 75.0 F, Flow Rate: , Velocity: 21.0 FPS	Uses Facility Site Location			
138518	Fugitive Area: SW Corner Coords	Activated Carbon Handling Road (EUG 12)	OP in 2016	Fugitive Height: 1.0 FEET, Fugitive Width: 932.0 FEET, Fugitive Length: 932.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location			
205153	Vertical	New Emergency Generator 1 - Caterpillar C15 (EUG 8A)	OP in 2021	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACPM, Velocity: 1.27324 FPM	Uses Facility Site Location			
206777	Vertical	Lime Handling Equipment (EUG 11)	OP	Height: 50.0 FEET, Shape: Circular, Diameter: 1.7 FEET, Temperature: 200.0 F, Flow Rate: 3,000.0 ACFM, Velocity: 1,321.70195 FPM	Uses Facility Site Location			
206778	Fugitive Area: SW Corner Coords	Lime Handling Road Travel (EUG 12A)	OP	Fugitive Height: 1.0 FEET, Fugitive Width: 932.0 FEET, Fugitive Length: 932.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location			

CONTROL DE	CONTROL DEVICES						
ID	Description	Status	Control Measure	Controlled Pollutants			
123874	Fabric Filter / Baghouse Primary 100 90	OP	127 - Fabric Filter / Baghouse	FM10-PRI-PM10 - Primary (Filterable + Condensible): 90.0%			
123875	Fabric Filter / Baghouse Primary 100 99	OP	127 - Fabric Filter / Baghouse	PM10-PRI-PM10 - Primary (Filterable + Condensible): 99.0%, PM25-PRI-PM2.5 - Primary (Filterable + Condensible): 99.0%			
123876	Bectrostatic Precipitator - Dry (DESP) Primary 100 99.5	OP	128 - Electrostatic Precipitator - Dry (DESP)	PM10-PRI-PM10 - Primary (Filterable + Condensible): 99.5%, PM25-PRI-PM2.5 - Primary (Filterable + Condensible): 99.5%			
123877	Activated Carbon Injection (ACI) Primary 100 90	OP	207 - Activated Carbon Injection (ACI)	7439976-Mercury: 90.0%			
123878	Flue Gas Desulfurization (FGD) Primary 100 95	OP	215 - Flue Gas Desulfurization (FGD)	SO2-Sulfur Oxides (SOx) expressed as SO2: 95.0%			
123879	Dust Suppression Primary 100 75	OP	217 - Dust Suppression	PM10-PRI-PM10 - Primary (Filterable + Condensible): 75.0%, PM25-PRI-PM2.5 - Primary (Filterable + Condensible): 75.0%			
123880	Dust Suppression Primary 100 85	OP	217 - Dust Suppression	PV25-PRI-PM2.5 - Primary (Filterable + Condensible): 85.0%			

EMISSION UNITS	EMISSION UNITS						
ID	Туре	Description	Status	Details			
9953	100 - Boiler	Eectric Power Generation Boiler Combustion Engineering - Unit NO 1	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR			
9954	100 - Boiler	Eectric Power Generation Boiler Combustion Engineering - Unit NO 2	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR			
9955	760 - Conveyor	Coal Crushing, Screening and Handling	OP in 2002	Operation Start: , Design Capacity:			
21130	100 - Boiler	Auxiliary Boiler (EUG 3)	OP in 2003	Operation Start: , Design Capacity: 33.0 E6BTU/HR			
42026	785 - Open Storage Pile	Coal Pile (EUG 6)	OP in 2007	Operation Start: , Design Capacity:			
47367	160 - Reciprocating IC Engine	NO 2 Emergency Generator GM-Detroit Serial NO 73100 (EUG 8-B-03)	OP in 2007	Operation Start: , Design Capacity: 750.0 HP			
47471	160 - Reciprocating IC Engine	Emergency Diesel Fire Pump Cummins VT1710F Serial 44932 (BUG 8-B-01)	OP in 2007	Operation Start: , Design Capacity: 700.0 HP			
50942	160 - Reciprocating IC Engine	Generac Model QT025A (EUG 9)	OP in 2007	Operation Start: , Design Capacity: 43.29 HP			
138766	780 - Silo	Activated Carbon Handling Equipment (EUG 10)	OPin 2016	Operation Start: , Design Capacity:			
138775	390 - Other fugitive	Activated Carbon Handling Road Travel (EUG 12)	OPin 2016	Operation Start: , Design Capacity:			
205940	160 - Reciprocating IC Engine	New Emergency Generator 1 - Caterpillar C15 (EUG 8A)	OP in 2021	Operation Start: , Design Capacity: 762.0 HP			
207532	780 - Silo	Lime Handling Equipment (EUG 11)	OP	Operation Start: , Design Capacity:			
207533	390 - Other fugitive	Lime Handling Road Travel (EUG 12A)	OP	Operation Start: , Design Capacity:			

UNIT PROCESSES						
Emission Unit ID	Unit Process ID	SCC	Description	Status	Details	
9953 Bectric Power Generation Boiler Combustion Engineering - Unit NO 1	49748	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP	Control Approach Controlled?: Yes Description: Bectrostatic Precipitator - Dry (DESP) and other measures Control Devices: 123876-Bectrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Rue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  Release Point Apportionment: 9953 - Bectric Power Generation Boiler - Unit NO 1: 100.0%	
9953 Bectric Power Generation Boiler Combustion Engineering - Unit NO 1	49749	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled.  Release Point Apportionment: 9953 - Bectric Power Generation Boiler - Unit NO 1: 100.0%	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit NO 2	49750	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP .	Control Approach Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) and other measures Control Devices: 123876-Electrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Flue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  Release Point Apportionment: 9954 - Electric Power Generaton Boiler - Unit NO 2: 100.0%	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit NO 2	49751	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP .	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled.  Release Point Apportionment: 9954 - Bectric Power Generaton Boiler - Unit NO 2: 100.0%	
9955 Coal Crushing, Screening and Handling	49752	30510103	Bulk Materials Conveyors - Coal	OP .	Control Approach Controlled?: Yes Description: Dust Suppression and other measures Control Devices: 123874-Fabric Filter / Baghouse Primary 100 90, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123880-Dust Suppression Primary 100 85, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 9955 - Coal Screening and Handling: 100.0%	

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
21130 Auxiliary Boiler (EUG 3)	119495	10200502	Distillate Oil - 10-100 Million BTU/hr **	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled.  Release Point Apportionment: 21424 - Auxiliary Boiler Stack (EUG 3): 100.0%
<b>42026</b> Coal Pile (EUG 6)	149891	30510303	Bulk Materials Open Stockpiles - Coal	OP	Control Approach Controlled?: Yes Description: Dust Suppression Control Devices: 123879-Dust Suppression Primary 100 75, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  Release Point Apportionment: 41838 - Coal File (EUG 6): 100.0%
47367 NO 2 Emergency Generator GM- Detroit Serial NO 73100 (EUG 8-B-03)	156029	20200401	Diesel - Large Bore Engine	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled.  Release Point Apportionment: 47153 - NO 2 Emergency Generator (EUG 8-B-03): 100.0%
47471 Emergency Diesel Fire Pump Ourmins VT1710F Serial 44932 (EUG 8-B-01)	156118	20200401	Diesel - Large Bore Engine	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled.  Release Point Apportionment: 47237 - Emergency Diesel Fire Pump (EUG 8-B-01): 100.0%
50942 Generac Model QT025A (EUG 9)	160549	20201001	Liquified Petroleum Gas (LPG) - Propane: Reciprocating	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled.  Release Point Apportionment: 50627 - Generac Model QT025A (EUG 9): 100.0%
138766 Activated Carbon Handling Equipment (EJG 10)	259565	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 123875-Fabric Filter / Baghouse Primary 100 99, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  Release Point Apportionment: 138500 - Activated Carbon Silo (EUG 10): 100.0%
138775 Activated Carbon Handling Road Travel (EUG 12)	259604	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled.  Release Point Apportionment: 138518 - Activated Carbon Handling Road (EUG 12): 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
205940 New Emergency Generator 1 - Caterpillar C15 (EUG 8A)	334361	20200401	New Emergency Generator 1 - Caterpillar C15	OP in 2021	Control Approach Controlled?: No Description:  Release Point Apportionment: 205153 - New Emergency Generator 1 - Caterpillar C15 (EUG 8A): 100.0%
207532 Lime Handling Equipment (EUG 11)	336142	30510496	Lime Handling Equipment (EUG 11)	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 123875-Fabric Filter / Baghouse Primary 100 99, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  Release Point Apportionment: 206777 - Lime Handling Equipment (EUG 11): 100.0%
207533 Lime Handling Road Travel (EJG 12A)	336143	30510496	Lime Handling Road Travel (EUG 12A)	OP	Control Approach Controlled?: No Description:  Release Point Apportionment: 206778 - Lime Handling Road Travel (EUG 12A): 100.0%

PROCESS EMISSIONS							
Emission Unit ID	Unit Process ID	Throughput			Operations		
9953 Bectric Power Generation Boiler Combustion Engineering - Unit NO 1	49748 Subbituminous Coal, Rulverized - Boiler, Dry Bottom Tangential-fired	- · ·		Average Hours/Day: 20.3, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 4,004.2 Seasonal Operations: Dec-Feb: 22.5%, Mar-May: 15.6%, Jun-Aug: 46.9%, Sep-Nov: 15.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO. Carbon Manavida				1_0 - Continuous Emission Monitoring System	710.267

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Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide			1_0 - Continuous Emission Monitoring System (CEVS)	719.267
7439921 - Lead			10_0 - OK DEQ Approved Method (no EF)	0.0063
	Emission Comment: Emiss	ions Calculated with EPRITRI For	Power Rants Software	
NOX - Nitrogen Oxides (NOx) expressed as NO2			1_0 - Continuous Emission Monitoring System (CEVS)	935.022
PM10-PRI - PM10 - Primary (Filterable + Condensible)	0.003458	E6BTU - MILLION BTUS	4_1 - Stack Test - US EPA Reference Method (pos Control EF)	26.25
	Stack Test Date: 11/06/2018	3		
	Emission Comment: New 1.1-6.	emission factors from stack test p	post scrubber installation. Stack test results plus FPM app	ortionment based on AP-42 Ta
PW25-PRI - PM 2.5 - Primary (Filterable + Condensible)	0.003406	E6BTU - MILLION BTUS	4_1 - Stack Test - US EPA Reference Method (pos Control EF)	25.855
	Stack Test Date: 11/06/2018			
	Emission Comment: New 1.1-6.	emission factors from stack test p	post scrubber installation. Stack test results plus FPM app	ortionment based on AP-42 Ta
SO2 - Sulfur Oxides (SOx) expressed as SO2			1_0 - Continuous Emission Monitoring System (CEVS)	247.424
VOC - Volatile Organic Compounds (VOCs)	0.06	TON-TONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (Control EF)	no 25.99468842
	Overall Control Efficiency:	0.0%		
	Emission Comment: AP-42	2 - 1.1		
121142 - 2,4-Dinitrotoluene			10_0 - OK DEQ Approved Method (no EF)	0.0205
	Emission Comment: Emiss	ions Calculated with EPRITRI For	Power Plants Software	
75070 - Acetaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.02275
	Emission Comment: Emiss	ions Calculated with EPRITRIFor	Power Plants Software	
98862 - Acetophenone			10_0 - OK DEQ Approved Method (no EF)	0.0152
	Emission Comment: Emiss	ions Calculated with EPRITRI For	Power Plants Software	
107028 - Acrolein			10_0 - OK DEQ Approved Method (no EF)	0.02655
	Emission Comment: Emiss	ions Calculated with EPRITRI For	Power Plants Software	
107131 - Acrylonitrile			10_0 - OK DEQ Approved Method (no EF)	0.0835
	Emission Comment: Emiss	ions Calculated with EPRITRIFor	Power Plants Software	
7440360 - Antimony			10_0 - OK DEQ Approved Method (no EF)	0.002125
	Emission Comment: Emiss	ions Calculated with EPRITRIFor	Power Rants Software	
7440382 - Arsenic			10_0 - OK DEQ Approved Method (no EF)	0.00319
	Emission Comment: Emiss	ions Calculated with EPRITRI For	Power Plants Software	
71432 - Benzene (including benzene from gasoline)			10_0 - OK DEQ Approved Method (no EF)	0.0152
	Emission Comment: Emiss	ions Calculated with EPRITRI For	Power Plants Software	•
92875 - Benzidine			10_0 - OK DEQ Approved Method (no EF)	0.02125
	Emission Comment: Emiss	ions Calculated with EPRITRI For		•
100447 - Benzyl chloride			10_0 - OK DEQ Approved Method (no EF)	0.0144

Pollutant	Emissian General Divinissions Reliqued Will of Part TR For Power Clarks and Will Method	Estimated Emis. (Tons)
7440417 - Beryllium	10_0 - OK DEQ Approved Method (no EF)	0.00035
	Emission Comment: Emissions Calculated with EPRITRI For Power Plants Software	
92524 - Biphenyl	10_0 - OK DEQ Approved Method (no EF)	0.00091
	Emission Comment: Emissions Calculated with EPRITRI For Power Flants Software	-
117817 - Bis(2-ethylhexyl)phthalate (DEHP)	10 0 - OK DEQ Approved Method (no EF)	0.02135
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	-1
7440439 - Cadmium	10 0 - OK DEQ Approved Method (no EF)	0.000965
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	
75150 - Carbon disulfide	10_0 - OK DEQ Approved Method (no EF)	0.0129
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	
56235 - Carbon tetrachloride	10 0 - OK DEQ Approved Method (no EF)	0.001215
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	15.55
108907 - Chlorobenzene	10 0 - OK DEQ Approved Method (no EF)	0.001065
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	5.55 .555
67663 - Chloroform	10 0 - OK DEQ Approved Method (no EF)	0.001215
0.000 0.10.0.0III	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	5.55.210
7440473 - Chromium	10 0 - OK DEQ Approved Method (no EF)	0.0114
THORE GROTIGHT	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	0.0111
7440484 - Cobalt	10_0 - OK DEQ Approved Method (no EF)	0.00298
7-HOTOT - CODEIL	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	0.00230
98828 - Cumene	10_0 - OK DEQ Approved Method (no EF)	0.000835
90020 - Carreile	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	0.000033
132649 - Dibenzofuran	10 0 - OK DEQ Approved Method (no EF)	0.02125
132049 - Liber Zordram	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	0.02123
84742 - Dibutylphthalate	10_0 - OK DEQ Approved Method (no EF)	0.00555
84742 - Dibutyipi iti ialate	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	0.00333
121112 Directly of phthodoto		0.00695
131113 - Dimethyl phthalate	10_0 - OK DEQ Approved Method (no EF)	0.00685
100414 Phylhamena	Emission Comment: Emissions Calculated with EPRI TRI For Power Rants Software	0.004005
100414 - Ethyl benzene	10_0 - OK DEQ Approved Method (no EF)	0.001065
100004 FILL III : 1 (FIL III )	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	10,00070
106934 - Ethylene dibromide (Dibromoethane)	10_0 - OK DEQ Approved Method (no EF)	0.00372
407000 FILE FILE (4.6.5) (1.1.1)	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	0.000505
107062 - Ethylene dichloride (1,2-Dichloroethane)	10_0 - OK DEQ Approved Method (no EF)	0.002505
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	1, , , , , ,
50000 - Formaldehyde	10_0 - OK DEQ Approved Method (no EF)	0.02405
T	Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software	
110543 - Hexane	10_0 - OK DEQ Approved Method (no EF)	0.0167
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	
7647010 - Hydrochloric acid	10_0 - OK DEQ Approved Method (no EF)	0.445
	Emission Comment: Emissions Calculated with EPRITRI For Power Plants Software	
7664393 - Hydrogen fluoride (Hydrofluoric acid)	10_0 - OK DEQ Approved Method (no EF)	1.745
	Emission Comment: Emissions Calculated with EPRITRI For Power Flants Software	
7439965 - Manganese	10_0 - OK DEQ Approved Method (no EF)	0.01635
	Emission Comment: Emissions Calculated with EPRI TRI For Power Rants Software	
7439976 - Mercury	1_0 - Continuous Errission Monitoring System	0.006
	(CEVS)	

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. F	actor UOM	Calculation Method	Estimated Emis. (Tons)
		71556 - Methyl chloroform (1,1,1-Trichloroethane)				10_0 - OK DEQ Approved Method (no EF)	0.0019
			Emission Comment: Emiss	ions Calcul	ated with EPRITRI For Powe	er Plants Software	
		74884 - Methyl iodide (lodomethane)				10_0 - OK DEQ Approved Method (no EF)	0.003265
			Emission Comment: Emiss	ions Calcul	ated with EPRITRI For Powe	er Plants Software	•
		108101 - Methyl isobutyl ketone (Hexone)				10_0 - OK DEQ Approved Method (no EF)	0.0675
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIFor Powe	er Plants Software	•
		75092 - Methylene chloride (Dichloromethane)				10_0 - OK DEQ Approved Method (no EF)	0.144
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIFor Powe	er Plants Software	
		91203 - Naphthalene				10_0 - OK DEQ Approved Method (no EF)	0.002365
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIFor Powe	er Plants Software	
		7440020 - Nickel				10_0 - OK DEQ Approved Method (no EF)	0.0131
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIF or Powe	er Plants Software	
		95476 - o-Xylene				10_0 - OK DEQ Approved Method (no EF)	0.00148
			Emission Comment: Emiss	ions Calcul	ated with EPRITRI For Powe	er Plants Software	•
		108952 - Phenol				10_0 - OK DEQ Approved Method (no EF)	0.0144
			Emission Comment: Emiss	ions Calcul	ated with EPRITRI For Powe	er Plants Software	•
		123386 - Propionaldehyde				10_0 - OK DEQ Approved Method (no EF)	0.03795
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIFor Powe	er Plants Software	•
		100425 - Styrene				10_0 - OK DEQ Approved Method (no EF)	0.000985
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIFor Powe	er Plants Software	
		7664939 - Sulfuric acid (including acid mist expressed as H2SO4)				10_0 - OK DEQ Approved Method (no EF)	0.0
			Emission Comment: Emiss	ions Calcul	ated with EPRITRI For Powe	er Plants Software	
		127184 - Tetrachloroethylene (Perchloroethylene)				10_0 - OK DEQ Approved Method (no EF)	0.00041
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIFor Powe	er Plants Software	
		108883 - Toluene				10 0 - OK DEQ Approved Method (no EF)	0.01215
			Emission Comment: Emiss	ions Calcul	ated with EPRITRI For Powe	er Plants Software	-
		79016 - Trichloroethylene				10 0 - OK DEQ Approved Method (no EF)	0.001975
			Emission Comment: Emiss	ions Calcul	ated with EPRITRIFor Powe	er Plants Software	
		1330207 - Xylenes (isomers and mixture)				10 0 - OK DEQ Approved Method (no EF)	0.002885
			Emission Comment: Emiss	ions Calcul	ated with EPRITRI For Powe	,	l.
mission Unit ID	Unit Process ID	Throughput	-1		Operations		
1953 Gectric Power Generation Boiler Combustion Engineering - Unit NO 1	49749 Distillate Oil - Grades 1 and 2 - Boiler	Annual Throughput: 882.26 1000 GALLONS (Diesel) (Input)			Actual Hours/Year: 306.	Days/Week: 5.2, Weeks/Year: 38.0 3 xc-Feb: 22.5%, Mar-May: 15.6%, Jun-Aug: 46.9%, Sep-	Nov: 15.0%
	1	Pollutant	Emis. Factor (Lbs/UOM)	Emis. F	actor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				1_0 - Continuous Emission Monitoring System (CEVS)	0.0
			Emission Comment: Repor	ted on CEN	/IS for coal process	•	•
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	2.3	E3GAL	- 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.014599
			Overall Control Efficiency:	0.0%			•
			Emission Comment: AP-42	2 - 1.3			
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)	1.55	E3GAL ·	- 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.6837515
			Overall Control Efficiency:	0.0%		•	•
			12/19				

		Pollutant	Emissian Generation P-42	Émis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		VOC - Volatile Organic Compounds (VOCs)	0.2	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.088226
			Overall Control Efficiency: 0.	0%			
			Emission Comment: AP-42 -	1.3			
		50000 - Formaldehyde	0.061	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.02690892999999
			Overall Control Efficiency: 0.	0%		•	•
			Emission Comment: AP-42 -	1.3			
Emission Unit ID	Unit Process ID	Throughput			Operations		
9954 Electric Power Generation Boiler Combustion Engineering - Unit NO 2	49750 Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	Annual Throughput: 858,888.8757 TONS (Coal) (Input)			Actual Hours/Year: 4,020	, Days/Week: 5.2, Weeks/Year: 38.0 .7 :-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-	Nov: 16.7%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		○○ - Carbon Mbnoxide				1_0 - Continuous Errission Monitoring System (CEMS)	843.862
		7439921 - Lead				10_0 - OK DEQ Approved Method (no EF)	0.0061
			Emission Comment: Emission	ns Calculate	ed with EPRITRIFor Power	Pants Software	
		NOX - Ntrogen Oxides (NOx) expressed as NO2				1_0 - Continuous Emission Monitoring System (CEVS)	919.764
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	0.002713	E6BTU - M	ILLIONBTUS	4_1 - Stack Test - US EPA Reference Method (post- Control EP)	20.41
			Stack Test Date: 05/28/2021				
			Emission Comment: New er 1.1-6.	nission fact	ors from stack test post so	rubber installation. Stack test results plus FPM apporti	onment based on AP-42 Table
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)	0.002037	E6BTU - M	ILLIONBTUS	4_1 - Stack Test - US EPA Reference Method (post- Control Er)	15.329
			Stack Test Date: 05/28/2021				
			Emission Comment: New er 1.1-6.	nission fact	ors from stack test post so	rubber installation. Stack test results plus FPM apporti	onment based on AP-42 Table
		SO2 - Sulfur Oxides (SOx) expressed as SO2				1_0 - Continuous Errission Monitoring System (CEMS)	246.583
		VOC - Volatile Organic Compounds (VOCs)	0.06	TON-TON	IS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	25.766666271
			Overall Control Efficiency: 0.	0%			
			Emission Comment: AP-42 -	1.1			
		121142 - 2,4-Dinitrotoluene				10_0 - OK DEQ Approved Method (no EF)	0.0203
			Emission Comment: Emission	ns Calculate	ed with EPRITRIFor Power	·	Γ
		75070 - Acetaldehyde				10_0 - OK DEQ Approved Method (no EF)	0.02255
			Emission Comment: Emission	ns Calculate	ed with EPRITRIFor Power		T
		98862 - Acetophenone				10_0 - OK DEQ Approved Method (no EF)	0.01505
		407000 A	Emission Comment: Emission	ns Calculate	ed with EPRITRIFor Power		0.00005
		107028 - Acrolein	Foringing Comments Fig. 1	na Calada (	-d#6 EDDI TDI E D	10_0 - OK DEQ Approved Method (no EF)	0.02635
		407424 A ou double	Emission Comment: Emissio	ns Calculate	ea with HHI 1HI For Powei	•	0.002
		107131 - Acrylonitrile	Emission Comments Francis	no Coledada	ad with CDI TDI Car Derver	10_0 - OK DEQ Approved Method (no EF)	0.083
		7440360 - Antimony	Emission Comment: Emission	is Calculate	eu wiiii EFRI IRI FOF FOW EI	10 0 - OK DEQ Approved Method (no EF)	0.002095
		7-4-0000 - Aliumony	Emission Comment: Emissio	ne Calculate	ad with FDRITDI For Down	, ,	0.002030
			Linasion Confinent: EffSSIO	i is Calculate		FIGHE JUILWAIE	

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
7440382 - Arsenic			10_0 - OK DEQ Approved Method (no EF)	0.00308
	Emission Comment: Emissi	ons Calculated with EPRITRIFor R	ower Plants Software	-
71432 - Benzene (including benzene from gasoline)			10_0 - OK DEQ Approved Method (no EF)	0.01505
	Emission Comment: Emission	ons Calculated with EPRITRIFor R		
92875 - Benzidine			10_0 - OK DEQ Approved Method (no EF)	0.02105
	Emission Comment: Emission	ons Calculated with EPRITRIFor R	ower Rants Software	
100447 - Benzyl chloride			10 0 - OK DEQ Approved Method (no EF)	0.0143
•	Emission Comment: Emission	ons Calculated with EPRITRIFor R	,	
7440417 - Beryllium			10 0 - OK DEQ Approved Method (no EF)	0.0003395
•	Emission Comment: Emission	ons Calculated with EPRITRIFor R	ower Rants Software	
92524 - Biphenyl			10 0 - OK DEQ Approved Method (no EF)	0.000905
	Emission Comment: Emission	ons Calculated with EPRITRIFor R		
117817 - Bis(2-ethylhexyl)phthalate (DE+P)			10 0 - OK DEQ Approved Method (no EF)	0.02115
	Emission Comment: Emissi	_!ons Calculated with EPRI TRI For Ro	· · · · · · · · · · · · · · · ·	1 2 2
7440439 - Cadmium			10 0 - OK DEQ Approved Method (no EF)	0.000945
	Emission Comment: Emission		, ,	1
75150 - Carbon disulfide		one calculated with E 14 1141 of 16	10 0 - OK DEQ Approved Method (no EF)	0.0128
70100 Carbon dibando	Emission Comment: Emission	I ons Calculated with EPRI TRI For Po	_ '' '	0.0120
56235 - Carbon tetrachloride	Emission comment. Emission	OID CAICUICICC WILL IN THE TOTAL	10 0 - OK DEQ. Approved Method (no EF)	0.001205
50255 - Cai boi i teti aci iio ide	Emission Comment: Emission	_ <u>I</u>		0.001203
108907 - Chlorobenzene	Linesion Comment. Linesin	ors calculated with a remarkable	10 0 - OK DEQ Approved Method (no EF)	0.001055
100907 - CHIOLODELIZELIE	Emission Comment: Existi		,	0.001033
67662 Chloroform	Emission Comment. Emission	UIS Calculated WILLIETN TN FOLF	· · · · · · · · · · · · · · · · · · ·	0.001205
67663 - Chloroform	Grain alon Commonts Francis		10_0 - OK DEQ Approved Method (no EF)	0.001205
7440470 0	Emission Comment: Emission	ons Calculated with EPRITRIFOR FO		0.0444
7440473 - Chronium	Endander Community Endand	O-ll-td#h FDDITDIE D	10_0 - OK DEQ Approved Method (no EF)	0.0111
7440404	Emission Comment: Emission	ons Calculated with EPRITRI For Po		0.00005
7440484 - Cobalt			10_0 - OK DEQ Approved Method (no ⊞)	0.002905
20000	Emission Comment: Emission	ons Calculated with EPRITRIFor Po	<del>-</del>	10,0000
98828 - Cumene		<u> </u>	10_0 - OK DEQ Approved Method (no EF)	0.00083
	Emission Comment: Emissi	ons Calculated with EPRITRIFor Po		T
132649 - Dibenzofuran			10_0 - OK DEQ Approved Method (no EF)	0.02105
	Emission Comment: Emissi	ons Calculated with EPRI TRI For Po		
84742 - Dibutylphthalate			10_0 - OK DEQ Approved Method (no EF)	0.0055
	Emission Comment: Emissi	ons Calculated with EPRI TRI For Po	1	
131113 - Dimethyl phthalate			10_0 - OK DEQ Approved Method (no EF)	0.00675
	Emission Comment: Emission	ons Calculated with EPRITRI For Po	ower Plants Software	
100414 - Ethyl benzene			10_0 - OK DEQ Approved Method (no EF)	0.001055
	Emission Comment: Emissi	ons Calculated with EPRITRIFor Po	ower Plants Software	·
106934 - Ethylene dibromide (Dibromoethane)			10_0 - OK DEQ Approved Method (no EF)	0.003685
	Emission Comment: Emission	ons Calculated with EPRITRIFor Po	ower Plants Software	•
107062 - Ethylene dichloride (1,2-Dichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.002485
	Emission Comment: Emission	ons Calculated with EPRITRIFor R	ower Plants Software	
50000 - Formaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.0235
· · · · · · · · · · · · · · · · · · ·	Emission Comment: Emissi	ons Calculated with EPRITRIFor R		I
110543 - Hexane			10 0 - OK DEQ Approved Method (no EF)	0.01655
	Emission Comment: Emission	I ons Calculated with EPRI TRI For Po	= , ,	
	anission comment. ansar	OID CAIDAIGICA WILLIAM IN THE TOTAL	SW SE FIGURE SOFTWARD	

Oil - 1 and 2 -			Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-I	lov // 1G 70/
	Annual Throughput: 861.74 1000 GALLONS (Diesel) (Input)		Average Hours/Day: 1.6, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 323.6	
ocess ID	Throughput		Operations	
		Emission Comment: Emiss	ns Calculated with EPRI TRI For Power Flants Software	
	1330207 - Xylenes (isomers and mixture)		10_0 - OK DEQ Approved Method (no EF)	0.00286
		Emission Comment: Emiss	ns Calculated with EPRITRI For Power Rants Software	
	79016 - Trichloroethylene		10_0 - OK DEQ Approved Method (no EF)	0.001955
		Emission Comment: Emiss	ns Calculated with EPRITRI For Power Plants Software	
	108883 - Toluene		10_0 - OK DEQ Approved Method (no EF)	0.01205
		Emission Comment: Emiss	ns Calculated with EPRITRI For Power Plants Software	
	127184 - Tetrachloroethylene (Perchloroethylene)		10_0 - OK DEQ Approved Method (no EF)	0.0004065
		Emission Comment: Emiss	ns Calculated with EPRI TRI For Power Rants Software	
	7664939 - Sulfuric acid (including acid mist expressed as H2SO4)			0.0
		Emission Comment: Emiss	ns Calculated with EPRI TRI For Power Rants Software	
	100425 - Styrene		10_0 - OK DEQ Approved Method (no EF)	0.00098
		Emission Comment: Emiss	ns Calculated with EPRITRI For Power Rants Software	
	123386 - Propionaldehyde			0.0376
	11010	Emission Comment: Emiss	ns Calculated with EPRITRI For Power Rants Software	5.5110
	108952 - Phenol	Zincolon comment. Ends	10 0 - OK DEQ Approved Method (no EF)	0.0143
	out o Aylano	Emission Comment: Emiss	ns Calculated with EPRITRI For Power Rants Software	0.001700
	95476 - o-Xylene	=.nooion comment. 11153	10 0 - OK DEQ Approved Method (no EF)	0.001465
	1 TOUZU - 1 NUNCI	Fmission Comment: Fried	ns Calculated with EPRITRI For Power Hants Software	0.01213
	7440020 - Nickel	Linesion Comment: DISS		0.01275
	31200 - Traphill laterie	Emission Comment: Emiss	in_0 - OK DEQ Approved iverriod (no E-)  as Calculated with E-RITRI For Power Plants Software	U.UUZJH
	91203 - Naphthalene	anission Comment: ans	10 0 - OK DEQ Approved Method (no EF)	0.00234
	73092 - Metriylerie Critoride (Lichtoroffethane)	Emission Comment: Exica	ns Calculated with EPRITRI For Power Plants Software	U. 143
	75092 - Methylene chloride (Dichloromethane)	mission comment: Emss	ns Calculated with EPRI TRI For Power Rants Software  10 0 - OK DEQ Approved Method (no EF)	0.143
	108101 - Methyl isobutyl ketone (Hexone)	Eminatan Cammant: Esta	10_0 - OK DEQ Approved Method (no EF)	0.067
	400404 Mathedia heat diletana (Llevena)	Emission Comment: Emiss	ns Calculated with EPRI TRI For Power Flants Software	0.007
	74884 - Methyl iodide (lodomethane)	Fortanton O. 1.7.1	10_0 - OK DEQ Approved Method (no EF)	0.003235
	74004 NA-Ha disability (Indonesia and	Emission Comment: Emiss	ns Calculated with EPRI TRI For Power Plants Software	0.000005
	71556 - Methyl chloroform (1,1,1-Trichloroethane)		10_0 - OK DEQ Approved Method (no EF)	0.00188
	7439976 - Mercury		(ŌĐVS)	0.006
		Emission Comment: Emss	1 0 - Continuous Emission Monitoring System	
	7439965 - Manganese	Full day 0	10_0 - OK DEQ Approved Method (no EF)  s Calculated with EFRI TRI For Power Plants Software	0.0158
	7400005 Names	mission comment: Emss		0.0450
	7664393 - Hydrogen fluoride (Hydrofluoric acid)	Emission Comment: Fries	10_0 - OK DEQ Approved Method (no EF)  s Calculated with EFRITRI For Power Plants Software	1.73
	7004200 I bedragge fly spide (I bedraft spide acid)		40. 0. OK DEO Ammer and Method (no EE)	4 70

Emis. Factor UOM

Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software

**Calculation Method** 

10\_0 - OK DEQ Approved Method (no EF)

Estimated Emis. (Tons)

0.4405

Emis. Factor (Lbs/UOM)

Pollutant

Emission Unit ID

9954 Electric Power Generation Boiler

Combustion Engineering - Unit NO2

7647010 - Hydrochloric acid

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		○ Carbon Mbnoxide				1. 0. Continuous Exission Monitoring System	0.0	
			Emission Comment: Report	ed on CEVIS	for coal process			
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	2.3	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.991001	
			Overall Control Efficiency: 0					
			Emission Comment: AP-42	- 1.3				
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)	1.55	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.6678485	
			Overall Control Efficiency: 0	).0%				
			Emission Comment: AP-42	- 1.3				
		VOC - Volatile Organic Compounds (VOCs)	0.2	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.086174	
			Overall Control Efficiency: 0	0.0%				
			Emission Comment: AP-42	- 1.3				
		50000 - Formaldehyde	0.061	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.02628307	
			Overall Control Efficiency: 0	0.0%				
			Emission Comment: AP-42	- 1.3				
	Unit Process ID	Throughput			Operations			
9955 Coal Crushing, Screening and Handling	<b>49752</b> Bulk Materials Conveyors - Coal	Annual Throughput: 1,725,378.47 TONS (Coal) (Input)			Average Hours/Day: 20.3, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 4,020.7 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%			
[ <u>-</u>	1	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	, ,			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	10.84	
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.18	
Emission Unit ID	Unit Process ID	Throughput			Operations			
21130 Auxiliary Boiler (EUG3)	<b>119495</b> Distillate Oil - 10-100 Mllion BTU/hr **	Annual Throughput: 424,819.0 GALLONS (Distillate Oil (No. 2)) (Input)	out)		Average Hours/Day: 17.5, Days/Week: 5.0, Weeks/Year: 20.0 Actual Hours/Year: 1,750.0 Seasonal Operations: Dec-Feb: 57.1%, Mar-May: 32.0%, Jun-Aug: 0.0%, Sep-Nov: 10.9%			
	1	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac			Estimated Emis. (Tons)	
		CO - Carbon Monoxide	5.0	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.062	
			Overall Control Efficiency: 0	0.0%				
			Emission Comment: AP-42	- 1.3		,		
		NOX - Ntrogen Oxides (NOx) expressed as NO2	20.0	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	4.248	
			Overall Control Efficiency: 0					
			Emission Comment: AP-42	- 1.3				
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	2.3	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.489	
			Overall Control Efficiency: 0					
			Emission Comment: AP-42	- 1.3		,		
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)	1.55		000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.329	
			Overall Control Efficiency: 0	0.0%		· · · · · · · · · · · · · · · · · · ·		
			10/10					

		Pollutant	Emissian Genussoum P-42-	Émis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.213	E3GAL - 1	1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.045
			Overall Control Efficiency: 0.				
			Emission Comment: AP-42 S	Section 1.3			
		VOC - Volatile Organic Compounds (VOCs)	0.28	E3GAL - 1	1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.059
			Overall Control Efficiency: 0.				
			Emission Comment: AP-42 -	1.3			
Emission Unit ID	Unit Process ID	Throughput			Operations		
<b>42026</b> Coal Pile (EUG 6)	149891 Bulk Materials Open Stockpiles - Coal	Annual Throughput: 78.78 ACRES (Coal) (Input)			Actual Hours/Year: 8,760	, Days/Week: 7.0, Weeks/Year: 52.0 .0 :-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	22.80909209
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	2.525062454
	Unit Process ID	Throughput			Operations		
47367 NO 2 Emergency Generator GM- Detroit Serial NO 73100 (EUG 8-B-03)	156029 Diesel - Large Bore Engine	Annual Throughput: 411.63 GALLONS (Distillate Oil (Diesel)) (Input	;)		Actual Hours/Year: 10.8	Days/Week: 0.1, Weeks/Year: 52.0 :-Feb: 27.2%, Mar-May: 24.4%, Jun-Aug: 27.6%, Sep-	Nov: 20.8%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide	116.45	E3GAL - 1	1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.024
			Overall Control Efficiency: 0.	.0%			
			Emission Comment: AP-42 -	3.4			
		NOX - Ntrogen Oxides (NOx) expressed as NO2	438.4		1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.09
			Overall Control Efficiency: 0.				
			Emission Comment: AP-42 -	3.4			
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	7.8501		1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002
			Overall Control Efficiency: 0.				
			Emission Comment: AP-42 -	· 3.4		lo o lio CDA Description in A D 40 0 MAI 1 To 1	
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135		HORSEPOWER-HOURS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.0
			Overall Control Efficiency: 0.			and the fact LLOD	
			Emission Comment: AP-42 S	Section 3.4			
		VOC - Volatile Organic Compounds (VOCs)	12.33		1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002
			Overall Control Efficiency: 0. Emission Comment: AP-42 -				
Emission I hit ID	I hit Process ID	Throughput	unission Comment: AP-42 -		Operations		
Emission Unit ID 47471	Unit Process ID	Throughput			Operations		
Emergency Diesel	156118 Diesel - Large Bore Engine	Process was not operating, or was not required to report emissions,	during the reporting period.				

Emission Unit ID	Unit Process ID	Throughput			Operations			
	G	Comment: Unit did not operate in 2022			- Indiana in the second of the			
Emission Unit ID	Unit Process ID	Throughput			Operations			
50942 Generac Model QT025A (EUG 9)	160549 Liquified Petroleum Gas (LPG) - Propane: Reciprocating	Annual Throughput: 55.19 GALLONS (Liquified Petroleum Gas (LF	G)) (Input)		Actual Hours/Year: 13.3	Days/Week: 0.2, Weeks/Year: 52.0 :-Feb: 9.8%, Mar-May: 57.9%, Jun-Aug: 3.8%, Sep-No	v: 28.6%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide	0.189994152	HP-HR-H	ORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.054	
	•		Emission Comment: Manufa	acturer - QT				
		NOX - Ntrogen Oxides (NOx) expressed as NO2	0.009656236	HP-HR-H	ORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.003	
			Emission Comment: Manufa	acturer - QT				
		VOC - Volatile Organic Compounds (VOCs)	0.003152607	HP-HR-H	ORSEFOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.001	
			Emission Comment: Manufa	acturer - QT	A025A Factors			
Emission Unit ID		Throughput			Operations			
138766 Activated Carbon Handling Equipment (EUG 10)	259565 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 120.02 TONS (Material) (Input)			Actual Hours/Year: 14.0	Days/Week: 1.8, Weeks/Year: 38.0 :-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-	Nov: 16.7%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001	
	_	PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001	
Emission Unit ID	Unit Process ID	Throughput			Operations			
138775 Activated Carbon Handling Road Travel (EJG 12)	259604 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 37.70454545 MLES (Material) (Input)			Actual Hours/Year: 2.5	Days/Week: 0.7, Weeks/Year: 38.0 :-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-	Nov: 16.7%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				<del> </del>	0.003	
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0004	
	Unit Process ID	Throughput			Operations			
205940 New Emergency Generator 1 - Caterpillar C15 (EUG 8A)		Annual Throughput: 452.72 GALLONS (Distillate Oil (Diesel)) (Input	,		Actual Hours/Year: 11.9 Seasonal Operations: Dec	Days/Week: 0.1, Weeks/Year: 52.0 :-Feb: 35.3%, Mar-May: 26.1%, Jun-Aug: 19.3%, Sep-		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac		Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide	116.45		000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.026	
			Overall Control Efficiency: 0					
	I		Emission Comment: AP-42	- 3.4 T		0.2 LICEDA Decumenta in al AD 40.0 M/stroppe		
		NOX - Nitrogen Oxides (NOx) expressed as NO2	438.4	E3GAL - 1	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.099	

			HITTS: T'ACTOI" (EDS/OOM) "7"			Calculation Wethou	Listinated Linis. (1011s)	
			Emission Comment: AP-42	2 - 3.4				
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	7.8501	E3GAL - 10	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002	
			Overall Control Efficiency:	0.0%				
			Emission Comment: AP-42	2 - 3.4				
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135	HP-HR-HO	ORSEPOWER-HOURS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.0	
			Overall Control Efficiency:	0.0%				
			Emission Comment: AP-42	2 Section 3.4,				
		VOC - Volatile Organic Compounds (VOCs)	12.33	E3GAL - 10	000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.003	
			Overall Control Efficiency:	0.0%				
			Emission Comment: AP-42	2 - 3.4				
Emission Unit ID	Unit Process ID	Throughput			Operations			
207532	336142				Average Hours/Day: 10.7	, Days/Week: 5.2, Weeks/Year: 38.0		
Lime Handling	Lime Handling	Annual Throughput: 21,202.67 TONS (Product) (Output)			Actual Hours/Year: 2,122	2.0		
Equipment (EUG 11)	Equipment (EUG 11)			Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%				
	1	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fact	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		G #0 FG   G140   D: (F#   11   0   1   111)				8 0 - US EPA Documents incl. AP-42 & WebFIRE (no	5.348	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				( <del>F</del> )	5.348	
		HVTU-HRI - HVI 10 - Hrimary (Hiterable + Condensible)	Emission Comment: Emiss	ions for all lim	re handling equipment in 日	臣)  JG 11. Emission factor of 0.01 gr/dscf with various ac	fmrates.	
		PM25-PRI - PM 2.5 - Primary (Filterable + Condensible)	Emission Comment: Emiss	ions for all lim	ne handling equipment in El	<u></u> Ē)	fmrates.	
		,			<b>U</b> 11	JG 11. Emission factor of 0.01 gr/dscf with various ac 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	fmrates. 5.052	
Emission Unit ID	Unit Process ID	,		ions for all lim	<b>U</b> 11	匠)  JG 11. Emission factor of 0.01 gr/dscf with various ac  8_0 - US EPA Documents incl. AP-42 & WebFIRE (no 臣)	fmrates. 5.052	
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)		ions for all lim	re handling equipment in B.  Operations	匠)  JG 11. Emission factor of 0.01 gr/dscf with various ac  8_0 - US EPA Documents incl. AP-42 & WebFIRE (no 臣)	fmrates. 5.052	
207533 Lime Handling Road	336143 Lime Handling Road	PM25-PRI - PM2.5 - Primary (Filterable + Condensible)		ions for all lim	re handling equipment in B.  Operations	☐ Days/Week: 5.2, Weeks/Year: 38.0	fmrates. 5.052	
207533 Lime Handling Road	336143	PM25-PRI - PM2.5 - Primary (Filterable + Condensible)  Throughput		ions for all lim	re handling equipment in Element	☐ Days/Week: 5.2, Weeks/Year: 38.0	fmrates. 5.052 fmrates.	
207533 Lime Handling Road	336143 Lime Handling Road	PM25-PRI - PM2.5 - Primary (Filterable + Condensible)  Throughput		ions for all lim	re handling equipment in B Operations Average Hours/Day: 3.1, Actual Hours/Year: 607.7 Seasonal Operations: Dec	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	fmrates.  5.052 fmrates.  Nov: 16.7% Estimated Emis. (Tons)	
207533 Lime Handling Road	336143 Lime Handling Road	PM25-PRI - PM2.5 - Primary (Filterable + Condensible)  Throughput  Annual Throughput: 12,153.04 MLES (Material) (Input)	Emission Comment: Emiss	sions for all lim	re handling equipment in B Operations Average Hours/Day: 3.1, Actual Hours/Year: 607.7 Seasonal Operations: Dec	B)  US 11. Emission factor of 0.01 gr/dscf with various actor of 0.01 gr/dscf with var	fmrates. 5.052 fmrates.  Nov: 16.7% Estimated Emis. (Tons)	
Emission Unit ID  207533 Lime Handling Road Travel (EL/G 12A)	336143 Lime Handling Road	PM25-PRI - PM2.5 - Primary (Filterable + Condensible)  Throughput  Annual Throughput: 12,153.04 MLES (Material) (Input)  Pollutant	Emission Comment: Emiss  Emis. Factor (Lbs/UOM)	Emis. Fact	re handling equipment in B Operations Average Hours/Day: 3.1, Actual Hours/Year: 607.7 Seasonal Operations: Dector UOM	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	fmrates. 5.052 fmrates.  Nov: 16.7% Estimated Emis. (Tons)  0.18	
207533 Lime Handling Road	336143 Lime Handling Road	PM25-PRI - PM2.5 - Primary (Filterable + Condensible)  Throughput  Annual Throughput: 12,153.04 MLES (Material) (Input)  Pollutant	Emission Comment: Emiss  Emis. Factor (Lbs/UOM)	Emis. Fact	re handling equipment in B Operations Average Hours/Day: 3.1, Actual Hours/Year: 607.7 Seasonal Operations: Dector UOM	Days/Week: 5.2, Weeks/Year: 38.0  C-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Calculation Method  B. 0 - US EPA Documents incl. AP-42 & WebFIRE (no E)  JG 11. Emission factor of 0.01 gr/dscf with various ac pays/Week: 5.2, Weeks/Year: 38.0  C-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Calculation Method  8.0 - US EPA Documents incl. AP-42 & WebFIRE (no E)	fmrates. 5.052 fmrates.  Nov: 16.7% Estimated Emis. (Tons)  0.18	

EVAS ALGORITOLISTICIAN)CY: 0.0 mis. Factor UOM

Calculation Method

Estimated Emis. (Tons)

Pollutant